

# **MIDI Module 3000**

User's Manual

Ian Loiselle (Canada)



[www.conceptualaudiosolutions.ca](http://www.conceptualaudiosolutions.ca)

Copyright 2007-2010, Ian Loiselle - Conceptual Audio Solutions.

[www.conceptualaudiosolutions.ca](http://www.conceptualaudiosolutions.ca)

This publication is protected under copyright and all rights are reserved.

Disclaimer: Conceptual Audio Solutions and its product, the MIDI Module 3000, are in no way affiliated with Korg nor any of its products. The MIDI Module 3000 serves as an independent, third-party product, designed to enhance the functionality of the Korg SDD-3000.

# Warranty

The MIDI Module 3000 is warranted against part failure and/or faulty workmanship for a period of one year after delivery to the original owner. During this period Conceptual Audio Solutions will conduct any work deemed necessary, free of charge, provided that:

- There are no signs of tampering, modification, or opening the unit.
- The warranty label(s) are fully intact.
- Advised precaution and operation (as outlined in this manual) have been followed.

Conceptual Audio Solutions may, at its own discretion, service units whose warranties have expired, free of charge, provided that the preceding criteria has been met and that the precautions outlined in the following page have been observed.

Conceptual Audio Solutions reserves the right to make modifications to, or improvements upon the product without any obligation to include those changes in previously purchased units.

Please note that in all situations, the customer must pay for shipping in both directions, to and from Conceptual Audio Solutions.

To contact Conceptual Audio Solutions concerning a warranty and/or servicing, please send an email to Ian Loiselle at: [service@conceptualaudiosolutions.ca](mailto:service@conceptualaudiosolutions.ca)

# Precautions

For safe and proper functioning of the MIDI Module 3000, the following precautions must always be followed.

**DO NOT** expose this device to water or any other liquid.

**DO NOT** expose this device to temperatures less than 0 °C or in excess of 45 ° C.

**DO NOT** tamper with, modify or open this device at any time.

**DO NOT** use any solvents to clean this device. Simply use a clean cloth to wipe the unit.

**DO NOT** service this device, nor have anyone else, other than Conceptual Audio Solutions service this device. (Please see previous section for servicing information).

**DO NOT** connect this device to any power source that is not expressly stated in this manual.

**DO NOT** connect this device to any equipment that is not expressly stated in this manual.

Failure to follow any of the above precautions automatically voids the warranty.

Conceptual Audio Solutions is in no way responsible for any harm or damages caused by misuse of the MIDI Module 3000.

# Introduction

Thank you for purchasing the MIDI Module 3000 (MM3k), the first MIDI converter designed specifically for the Korg SDD-3000 (SDD3k).

For over two decades, musicians have admired the sonic character of the SDD3k. However, with the absence of MIDI capabilities, users of the SDD3k are at a loss when attempting to control the device in live situations. For this reason, Conceptual Audio Solutions, has designed a solution that bridges yesterday's technology with today's audio standards – the result is the MM3k.

No longer are musicians limited to manual incrementing of the SDD3k presets. Users now have the ability to choose on demand, and in any order, which preset they wish to recall through the use of the MIDI protocol. Recall of presets is fast and is completed within tens of milliseconds.

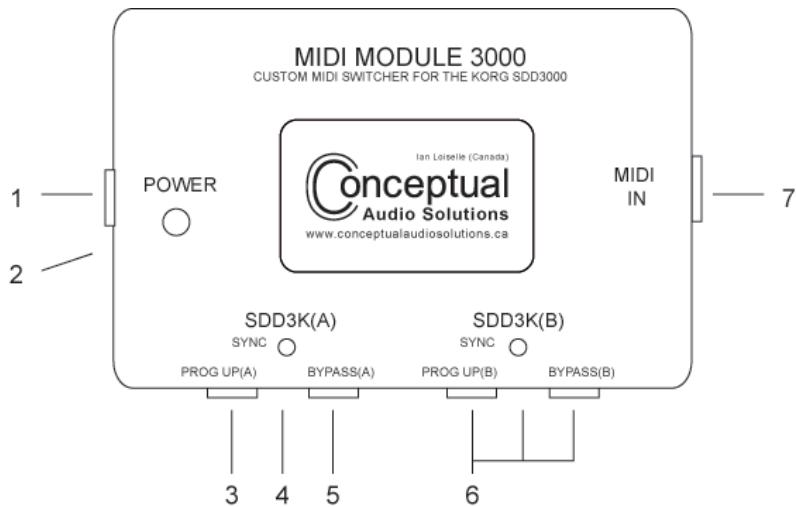
The MM3k is designed to accept MIDI messages from any MIDI controller that sends MIDI Program Changes. The MM3k then processes the Program Changes and converts them into logically assigned contact closures. All nine savable presets and the bypass function of the SDD3k are switchable through use of the MM3k.

The MM3k switcher is currently available in three different versions. The first version, the MM3k Single, controls one SDD3k. The second version, the MM3k Dual Tandem, controls two SDD3k's using the same MIDI data and provides identical preset switching to each SDD3k. The third version, the MM3k Dual Independent, controls two SDD3k's completely independent from each other.

Musicians can now focus their attention back to the fretboard and leave fast switching to the MM3k. Please continue reading this manual to learn more about the features and proper operation of the MM3k.

Ian Loiselle,  
Conceptual Audio Solutions

# Features



1. **POWER jack:** accepts a 2.1mm DC plug for supplying the MM3k with \*9VDC.

\* The 9VDC adapter must have a minimum current capability of 500mA and have a negative tip, positive barrel polarity.

2. **Red POWER LED:** indicates that power is supplied to the MM3k.
3. **PROG UP(A):** accepts a 1/4" mono cable and connects to the 'PROG UP' control input jack on the back of the SDD3k.
4. **Yellow SYNC LED:** indicates that the MM3k is internally set to program 1.
5. **BYPASS(A):** accepts a 1/4" mono cable and connects to the 'BYPASS' control input jack on the back of the SDD3k.
6. These Functions are identical to items 3, 4 and 5 and they are only available on the MM3k Dual Tandem and Dual independent switchers.
7. **MIDI IN jack:** accepts a 5-pin DIN, standard MIDI cable, providing the MM3k with incoming MIDI data from the foot controller of your choice.

## PLEASE NOTE:

1. Cables and power adapter are not included.
2. Disconnect power if the MM3k is not in use for long periods of time.

# Operation

## Installation

Installation of the MM3k in your rig will be dependent upon your existent system design. However, the MM3k interface has been specifically made to provide an un-cluttered installation directly in behind the input side of the SDD3k. If this location is available, we recommend fastening it to the inner wall of the rack case containing your gear.

Easy access to the MM3k power source is also a requirement (see synchronization section below). For this reason, it is recommended that the MM3k source its voltage from a power conditioner with a master switch. This setup, allows easy access to your rig power from the front of your rack case.

Caution: Do not connect any cables/instruments/devices to or from the MM3k other than what is described below.

## Setup and Initialization

1. Connect a standard 1/4" mono cable from the 'PROG UP(A)' jack of the MM3k to the 'PROG UP' control input jack on the back of the SDD3k. If you are using one of the MM3k Dual units, repeat the same procedure with the 'PROG UP(B)' jack.
2. Connect a standard 1/4" mono cable from the 'BYPASS' jack of the MM3k to the 'BYPASS' control input jack on the back of the SDD3k. If you are using one of the MM3k Dual units repeat the same procedure with the 'BYPASS(B)' jack.
3. Connect a 5-pin DIN, standard MIDI cable from your choice of MIDI foot controller to the 'MIDI IN' jack of the MM3k.
4. Connect the 'POWER' jack of the MM3k to the 9VDC jack specified on the previous page.
5. Ensure that both the red POWER LED and yellow SYNC LED light up.
6. Turn on your SDD3k.
7. Your MM3k is now setup and synchronized for use.

## Synchronization

The MM3k can be considered a set-and-forget unit. However, one key requirement maintains that both the MM3k and the SDD3k be in 'sync' with each other for the correct recall of presets.

Synchronizing the MM3k and SDD3k can be achieved by applying power to each unit (the order is not important). If the SDD3k is already powered up, ensure that it is on preset 1, and then re-apply power to the MM3k. The yellow sync light signifies when the MM3k is internally set to preset 1. This light will disappear if another preset has been recalled.

Maintaining synchronization requires the user to refrain from manually incrementing the SDD3k presets via the front panel 'PROG' button. The MM3k eliminates the need for manual incrementation. However, if it is desired, simply follow the instructions above to regain synchronization.

## **Regular Operation**

To perform its tasks, the MM3k mimics the preset logic of the SDD3k. Beginning at preset 1 and ending at preset 9, users have full control over calling up any of the nine SDD3k presets. An extra feature of the MM3k is the addition of a tenth preset, which sends the SDD3k into bypass mode. This allows users to take advantage of the highly sought after preamp of the SDD3k. If you wish to deselect the bypass, simply recall any one of the nine presets.

The MM3k accepts MIDI data from any MIDI foot controller capable of sending MIDI program changes. Please see the table below showing the factory default MIDI settings for the MM3k.

MODEL	MIDI CHANNEL	MIDI PROGRAM CHANGE RANGE	SPECIAL NOTE
MM3K Single	1	1 thru 10	
MM3K Dual Tandem	1	1 thru 10	Each SDD3k receives the same instructions.
MM3K Dual Independent	1 & 2	1 thru 10	Dedicate MIDI channels 1 and 2 for the MM3K

The following shows how the MM3k handles relevant MIDI data, assuming that all devices are synchronized.

MIDI CH1, PC1 = MM3k processes request and recalls SDD3k preset 1

MIDI CH1, PC2 = MM3k processes request and recalls SDD3k preset 2

etc ...

MIDI CH1, PC10 = MM3k processes request and enables SDD3k bypass

## ***... Yet another SDD3k Limitation and Possible Solutions***

Although the MM3k is fully capable of performing fast switching of the SDD3k's presets, the SDD3k can present another limitation to its users. With or without use of the MM3k, musicians might notice a slight momentary noise when incrementing the SDD3k's presets. It might be characterized as a pulsing sound and is amplified with the presence of an audio signal. The problem is related to the original design of the SDD3k. Test this for yourself. Manually increment the SDD3k presets and you will most likely hear the 'pulse'.

An internal modification of the SDD3k may be possible. However, a more viable solution is to simply place the SDD3k in the loop of a MIDI switcher and have it assigned an instant access switch on your MIDI controller. You can then activate the loop after the momentary noise has passed (SDD3k preset called), thereby avoiding the above issue altogether.

## **In Closing**

Thank you once again for your interest in my product. I hope that the MIDI Module 3000 will help make guitar playing less of a technical challenge and more of a musical experience.

Ian Loiselle,  
Conceptual Audio Solutions.